



**GEO**

**Calibration**

**Model 2500 CM**

# GENERAL SPECIFICATIONS

CALIBRATION	TRACEABILITY	17025 Traceable to NIST	
	PURCHASING	Charged Separately / Optional	
OPERATING AMBIENT CONDITIONS	TEMPERATURE	18 °C to 28 °C	
	HUMIDITY	Up to 80 % RH	
STORAGE CONDITIONS	TEMPERATURE	-20 °C to 50 °C	
	HUMIDITY	0 % to 95 % RH (non-condensing)	
ALTITUDE	2000 m		
CONTROLLED RANGE	TEMPERATURE	5 °C to 55 °C	
	HUMIDITY@ 18°C	5 % to 95 % RH	HUMIDITY@ 35°C 5 % to 80 % RH
	HUMIDITY@ 23°C	5 % to 95 % RH	HUMIDITY@ 40°C 5 % to 75 % RH
	HUMIDITY@ 30°C	5 % to 85 % RH	HUMIDITY@ 50°C 5 % to 60 % RH
CALIBRATION SYSTEM ACCURACY	TEMPERATURE	± 0.10 °C Or Better	Typically ± 0.05 °C
	HUMIDITY	± 1.00 % RH Or Better	Specially tuned systems can be as good as ± 0.60 %
	CONTROLLER TYPE	PID Controller	
UNIFORMITY	TEMPERATURE	0.10 °C Or Better	Typically ± 0.05 °C
	HUMIDITY	0.30 % RH @ 18 °C to 28 °C Or Better Typically ± 0.25 %	
STABILITY	TEMPERATURE	0.05 °C	
	HUMIDITY	0.15 % RH @ 18 °C to 28 °C	
RAMP / SOAK RATE OF CHANGE <small>*Depends on ambient conditions</small>	Temperature	High → Low	1.50 °C / minute (Typical)
		Low → High	5.00 °C / minute (Typical)
	Humidity	High → Low	5.00 % RH / minute (Typical)
		Low → High	10.00 % RH / minute (Typical)
WARM-UP PERIOD	Ambient Condition	30 Minutes Maximum	
	Cold	30 Minutes	
RESOLUTION	DISPLAY	Temperature	0.01 °C
		Humidity	0.01 % RH
		Dew Point	0.01 °C (Calculated)
	USB	Temperature	0.01 °C
		Humidity	0.01 % RH

# CONSUMABLES

WATER	RESERVOIR	200 ml
	SPILL RESISTANT	Yes
	REQUIRED FLUID	Distilled Water Only
	EST REFILL PERIOD	15 Days to 1 Month (Typical) * Depends on Usage
	FILL INDICATOR	Floating Ball
DESICCANT	TYPE	Molecular Sieve
	REPLACEMENT	When Indicating Desiccant is 3/4 Used
	REPLACEMENT FREQUENCY	Depends Entirely on User Workload
	LOCATION	Front Mounted
	FASTENER	Desiccant Doors
RECALIBRATION	FREQUENCY	Depends on User Uncertainty Requirements Once Per Year Recommended

# MECHANICAL

GENERATOR DIMENSIONS		Measurement Type	Width	Depth	Height
		Metric	46.82 cm	38.67 cm	23.47 cm
		Imperial	18.43 in	15.22 in	9.24 in
CHAMBER DIMENSIONS		Measurement Type	Diameter	Depth	
		Metric	14.50 cm	20.00 cm	
		Imperial	5.71 in	7.87 in	
WORKING DIMENSIONS AND VOLUME		Measurement Type	Diameter	Depth	
		Metric	12.50 cm	10.90 cm	
		Imperial	4.92 in	4.29 in	
		Volume	1.5 Liter Effective Working Volume		
WEIGHT		Unit Only	Metric	14.06 kg	
			Imperial	31.00 lb	
POWER SUPPLY		12 Volt DC @ 1A			
STANDARD PORT QUANTITY		Depends on doors	Availability: 6 Ports, 5 Ports, 4 Ports, 2 Ports		
CHILLED MIRROR PORTS		In and Out			
PROBE ANALOG OUTPUTS AVAILABLE		0 - 1 Volt	Probe Range	Actual Unit Range	
			Temperature	- 40.00 to + 60.00 °C	+ 5.00 to + 60.00 °C
			Humidity	0 to + 100.00 %	+ 5.00 to + 95.00 %

## Ordering Information

### Standard Supply Package

Square 6-Port Door	Desiccant Canister	Fill Syringe
7 Grommets (1/8", 1/4", 3/8", 1/2", 5/8", 3/4", 7/8")	Mains Power Cord	Calibration Documents

### Accessories

Doors	Shape	Port Quantity		Connector Type		Part Number		
	Square / Round	6-Port Door		M36 Connectors		01-001-00-0017 / 01-001-00-0018		
	Square / Round	4-Port Door		M36 Connectors		01-001-00-0003 / 01-001-00-0004		
	Square / Round	4-Port Door		SLIMLINE		01-001-00-0024 / 01-001-00-0025		
	Square	4-Port Chilled MirrorDoor		M36 Connectors		01-001-00-0010		
	Square	2-Port Door		M36 Connectors		01-001-00-0028		
Grommets	Port Type	Size (in)	Size (mm)	Part Number	Port Type	Size (in)	Size (mm)	Part Number
	M36	0.000"	0.000	01-004-09-0001	SLIMLINE	0.125"	3.175	01-004-09-0020
	M36	0.125"	3.175	01-004-09-0002	SLIMLINE	0.250"	6.350	01-004-09-0021
	M36	0.250"	6.350	01-004-09-0003	SLIMLINE	0.375"	9.525	01-004-09-0022
	M36	0.375"	9.525	01-004-09-0004	SLIMLINE	0.500"	12.700	01-004-09-0023
	M36	0.500"	12.700	01-004-09-0005	SLIMLINE	0.625"	15.875	01-004-09-0024
	M36	0.625"	15.875	01-004-09-0006	SLIMLINE	0.750"	19.050	01-004-09-0025
	M36	0.750"	19.050	01-004-09-0007	SLIMLINE	0.825"	20.950	01-004-09-0026
	M36	0.875"	22.225	01-004-09-0008	SLIMLINE	1.000"	25.400	01-004-09-0027
	M36	1.000"	25.400	01-004-09-0009				
Expanded Vol	Description			Width	Depth	Height	Part Number	
	Standard Expansion Chamber			220mm	286mm	345mm	01-054-00-0000	
Assorted	Description			Part Number	Description			Part Number
	Desiccant Canister			01-250-11-0001	Insert			01-200-08-0025





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Proudly Made in the USA



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